

1950 1951 1952 1953 1954 1955 1956

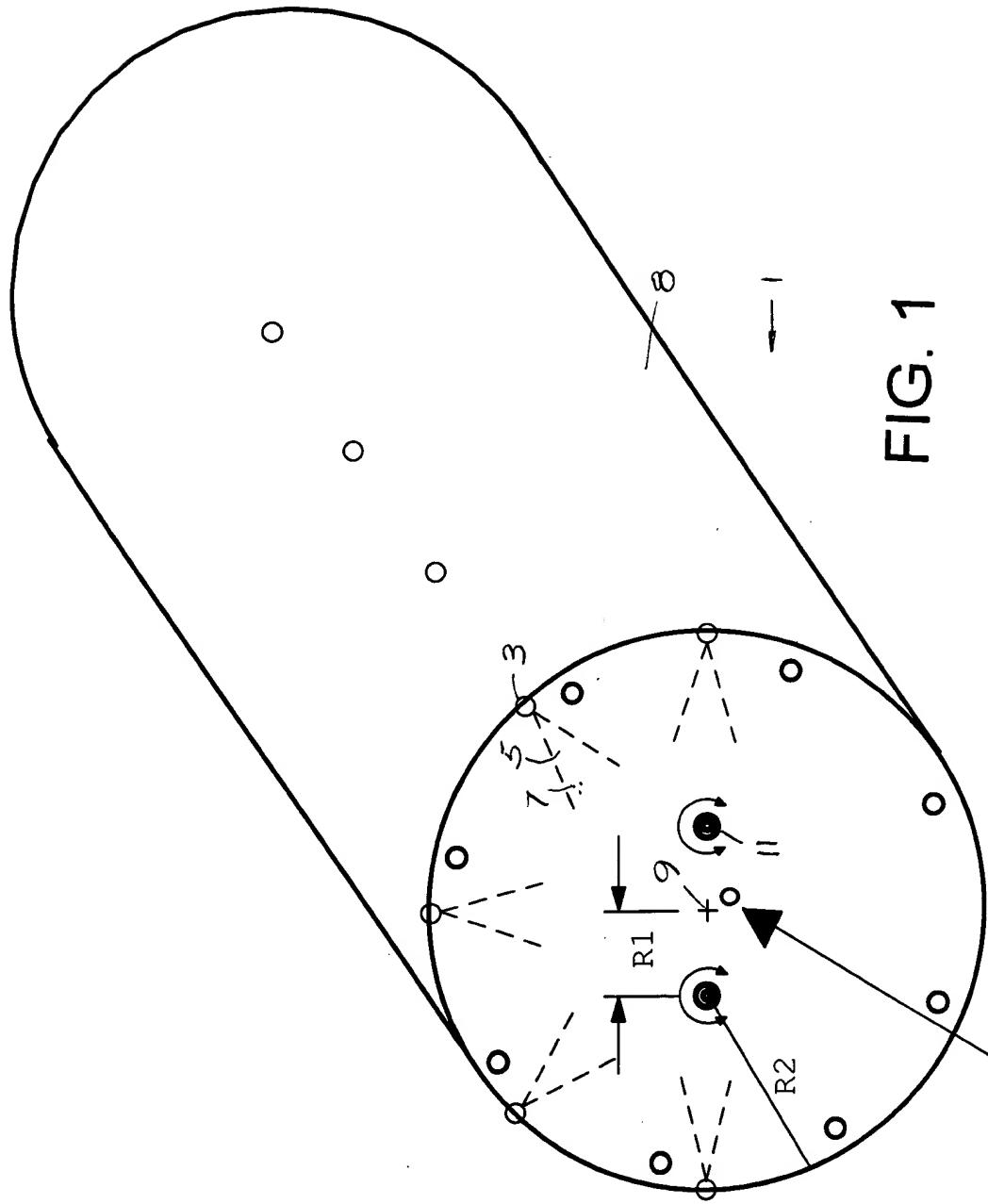
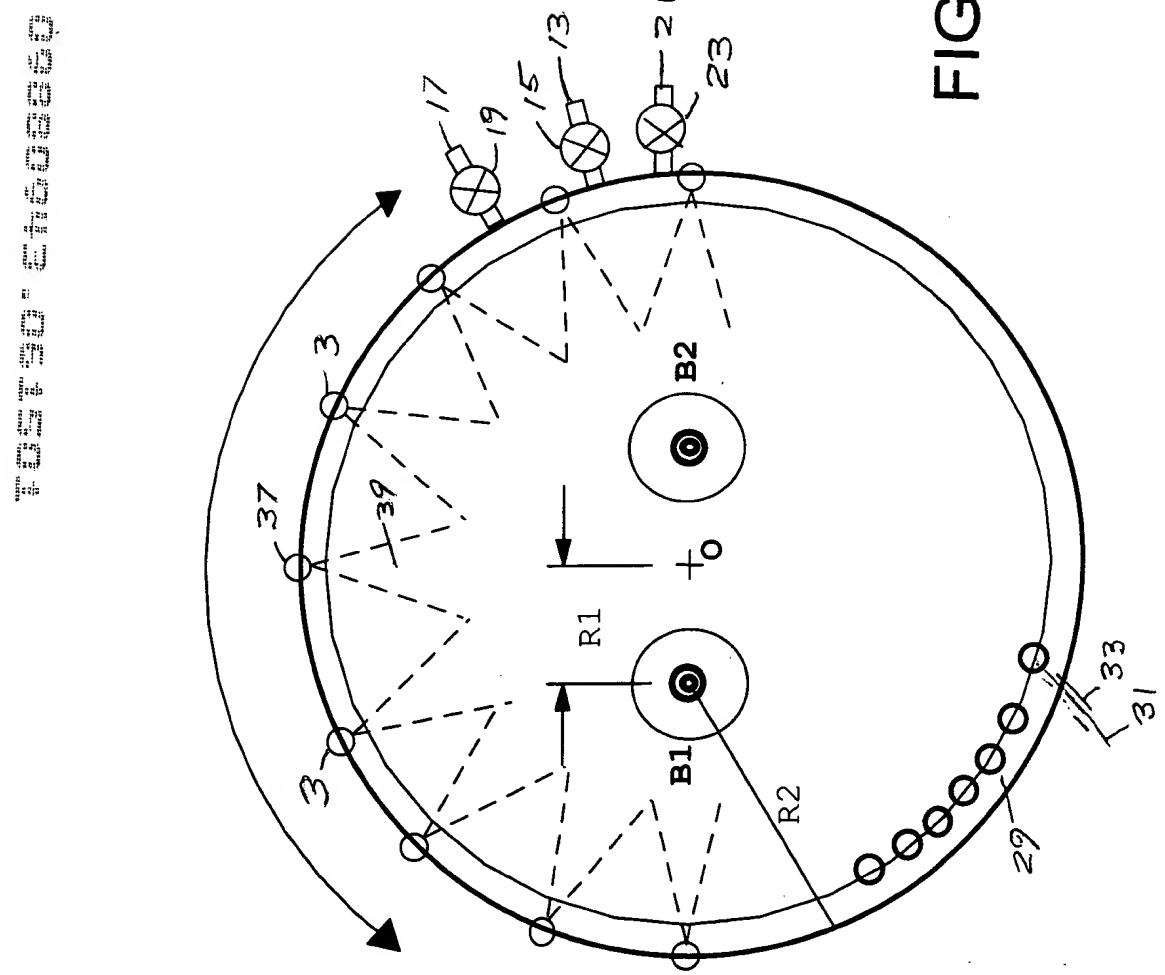


FIG. 1

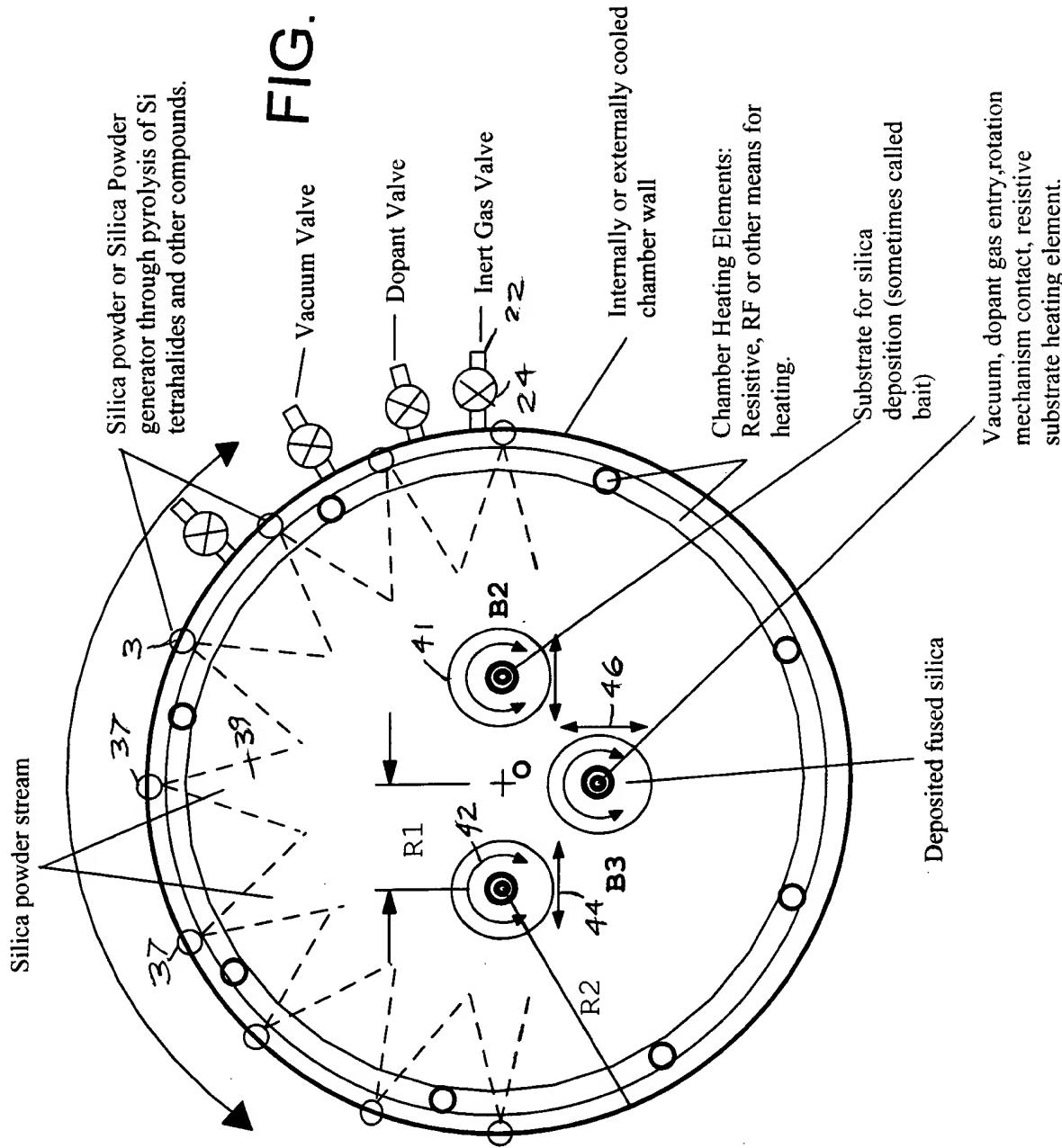
He and other Gasses

FIG. 2



22 23 24 25 26 27 28 29 20

FIG. 3



2020-09-22 2020-09-22

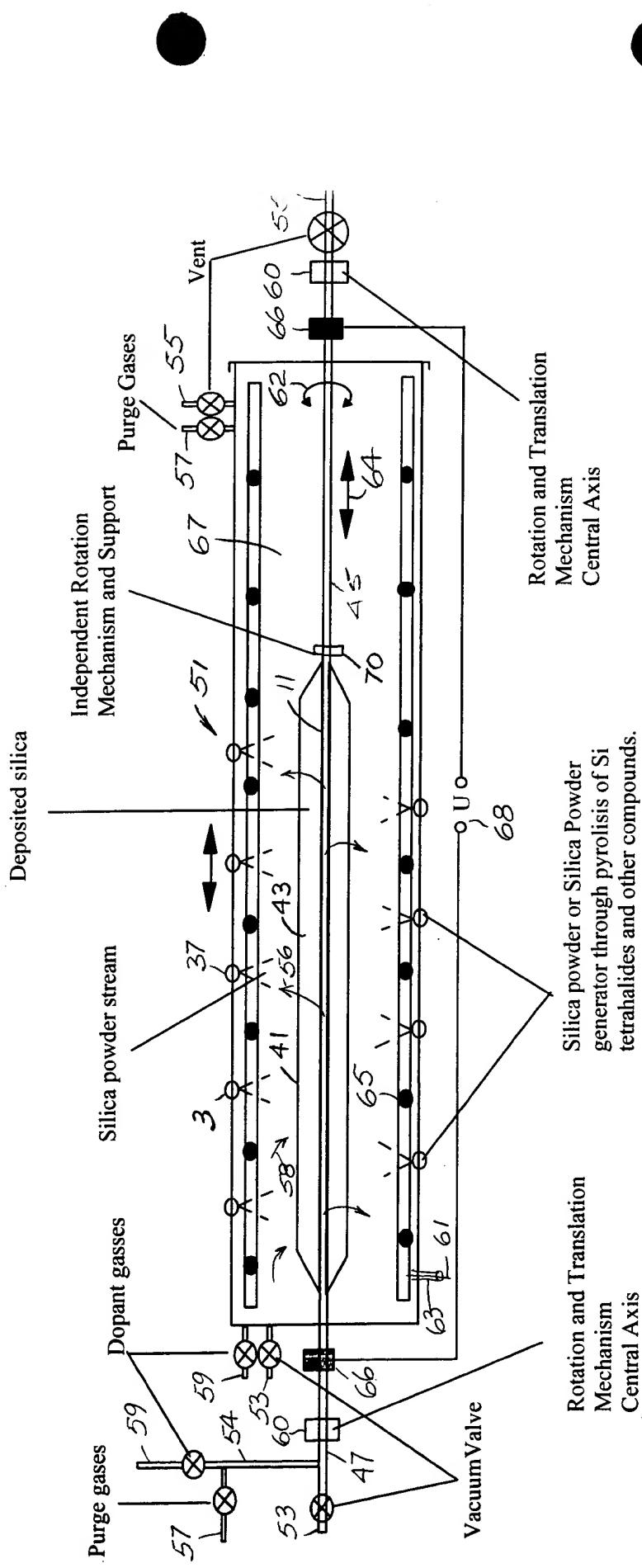
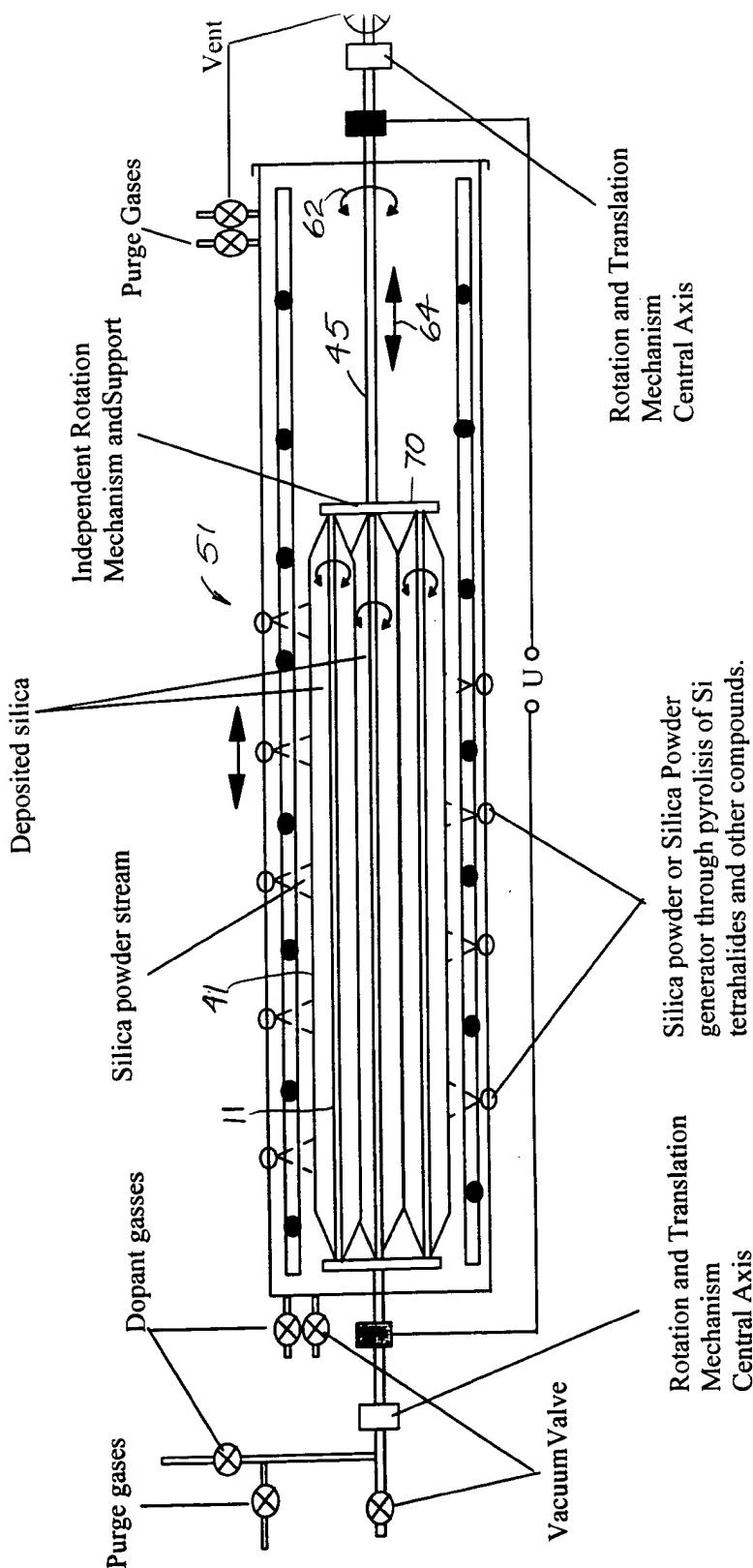


FIG. 4



5

7 0 5 2 7 5 2 = 2 5 6 2 5 6 2

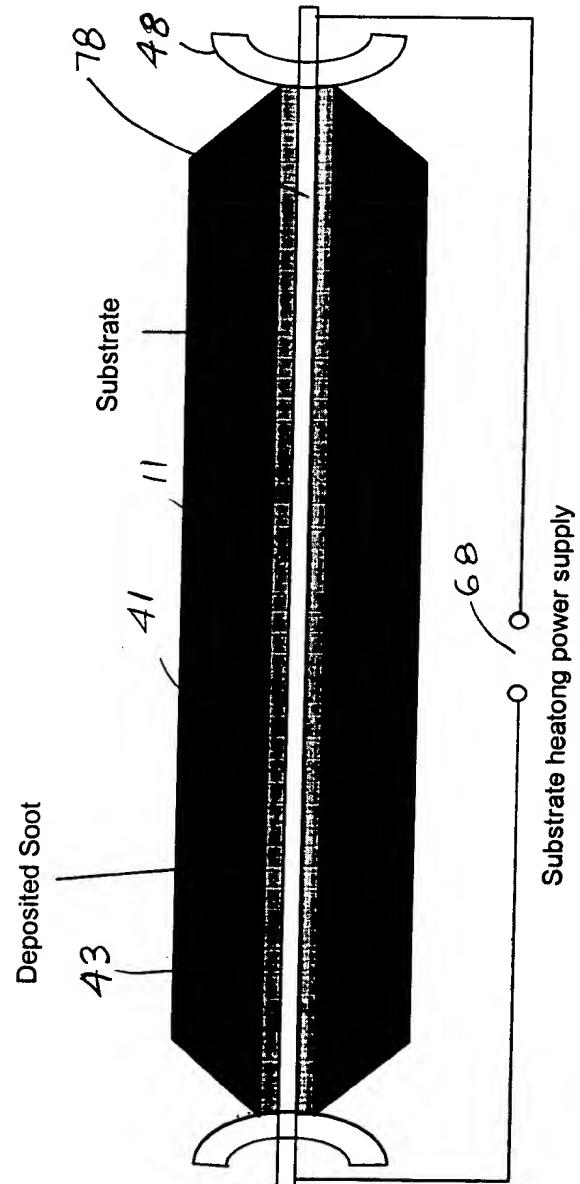
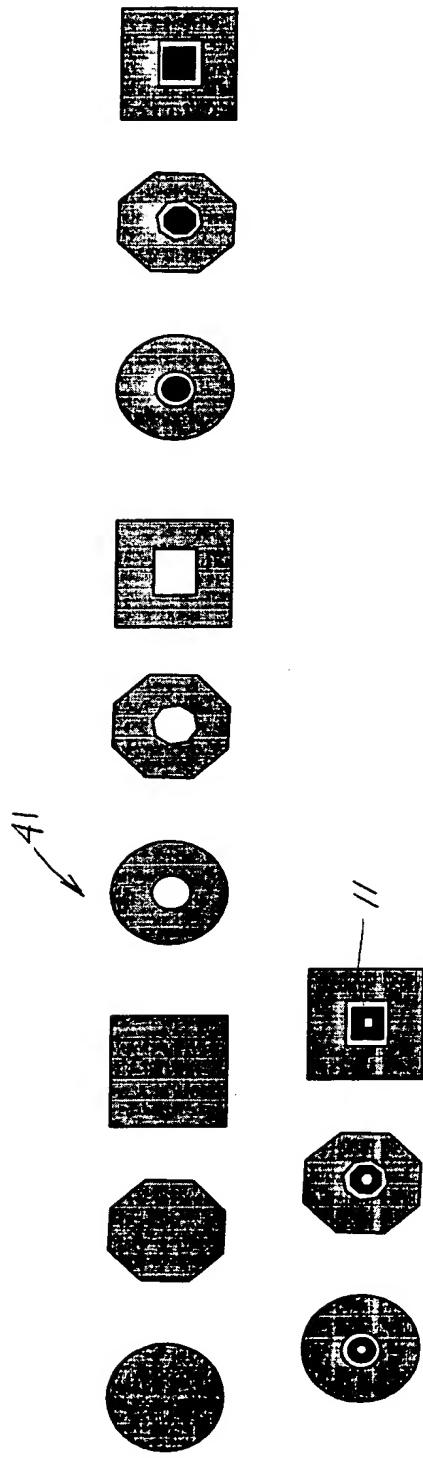


FIG. 6

Substrate heating power supply

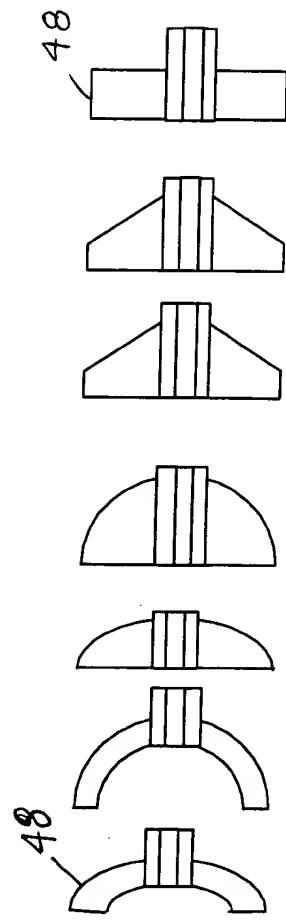
44-57500-2-Substrate



Preform and Substrate cross sections

FIG. 7

7 3 2 7 3 3 " E 4 5 3 3 6 6



Substrate end attachments

FIG. 8

7 0 3 7 9 0 7 9 0 7 9 0

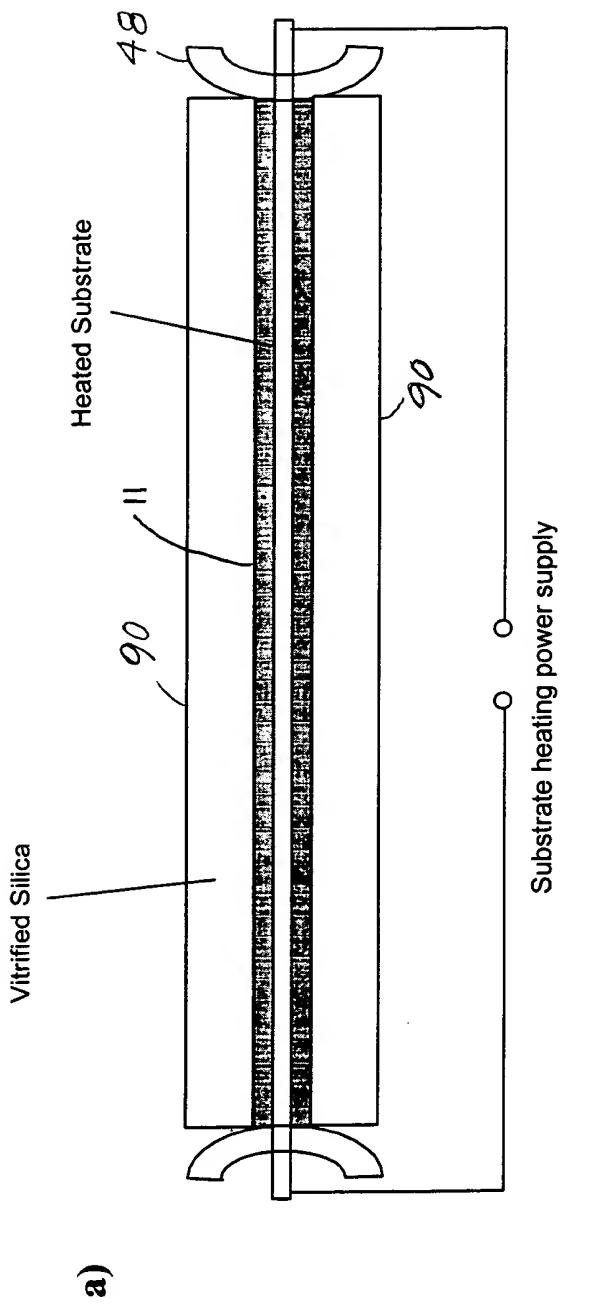
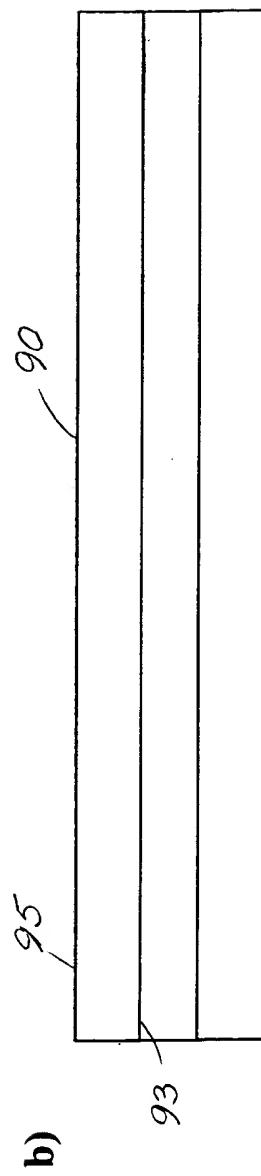


FIG. 9A



Silica Tube Member
FIG. 9B

4 0 2 7 3 3 3 3 3 3 3 3

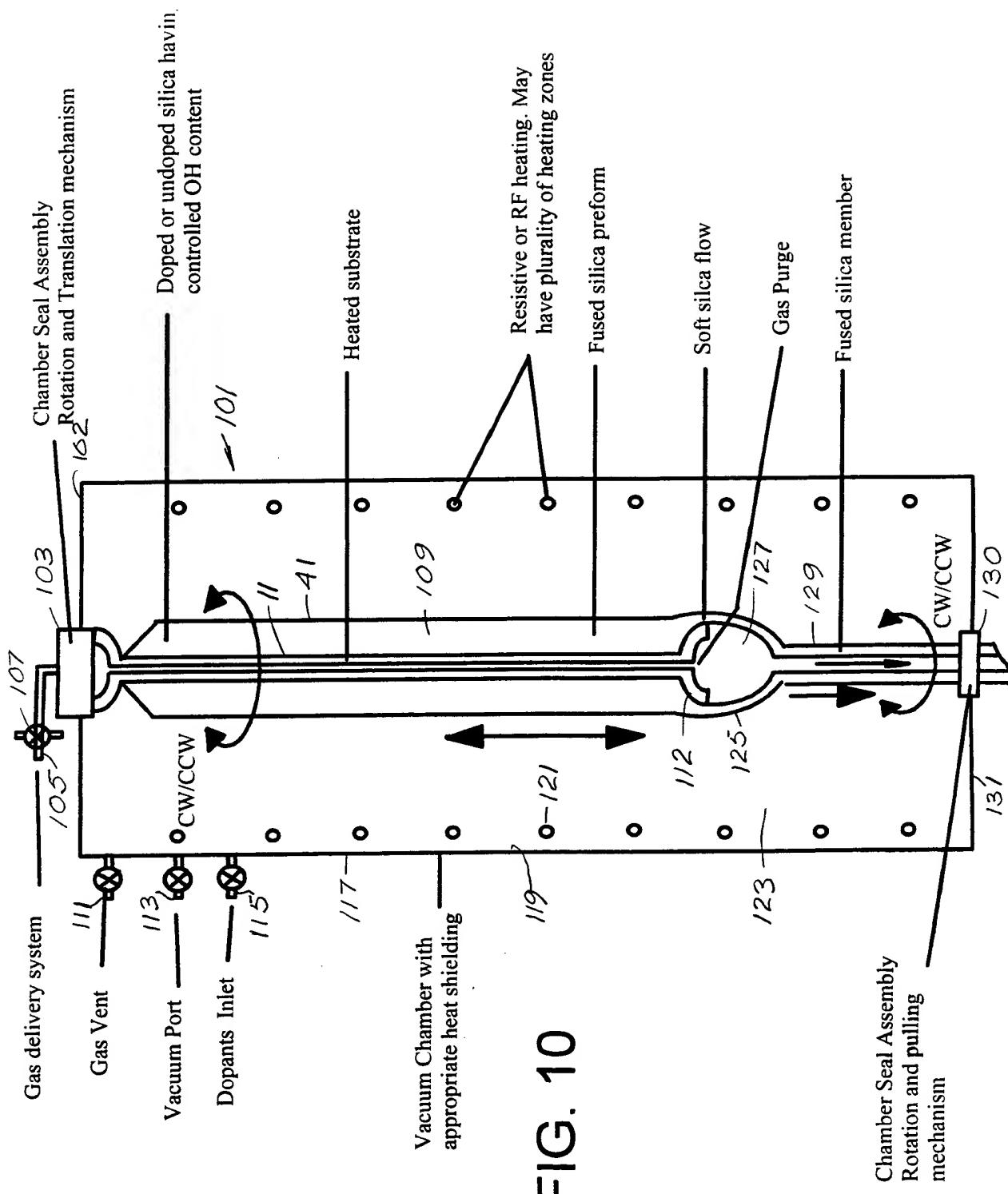


FIG. 10

702 727 563 565 566 567 568

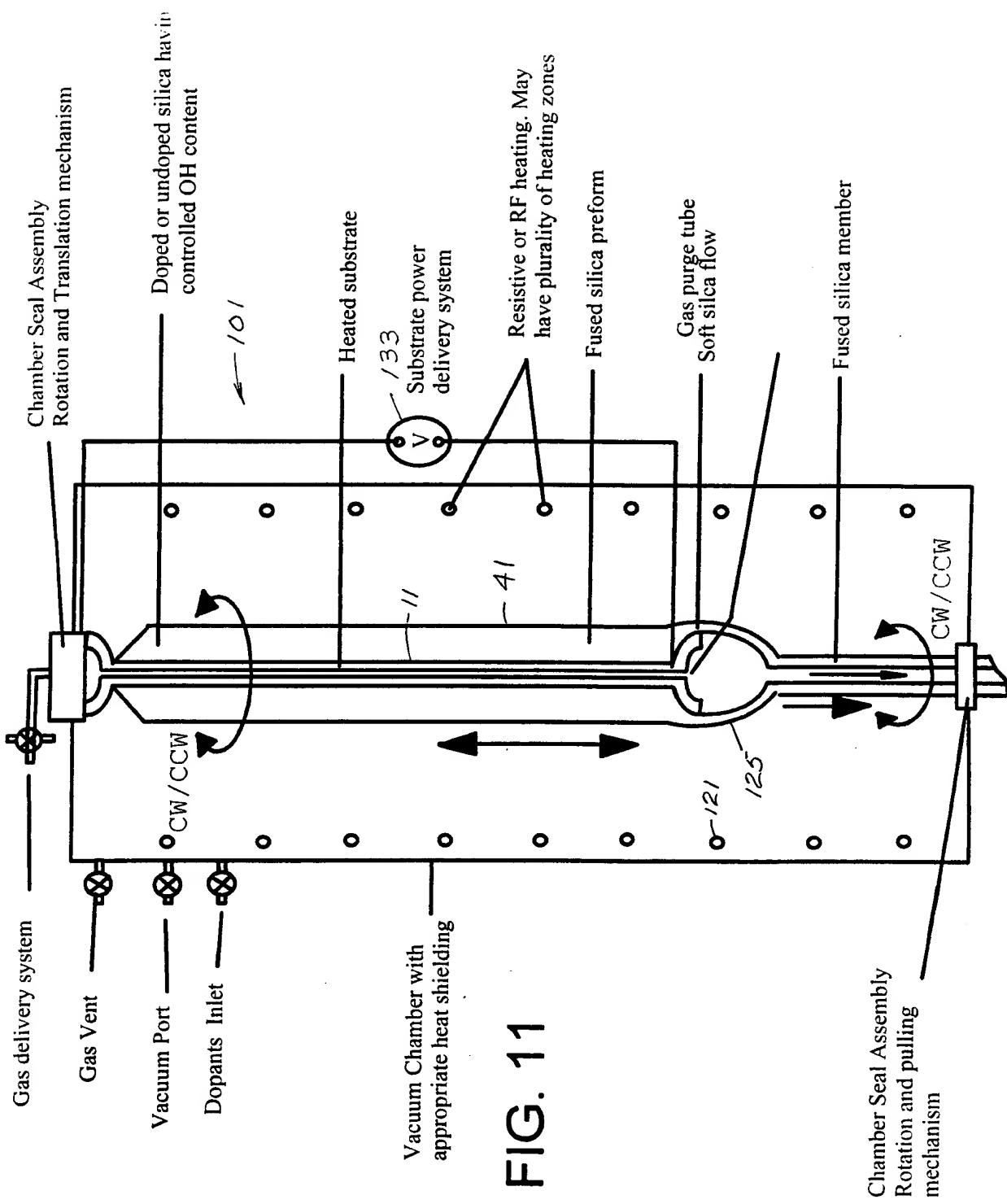


FIG. 11

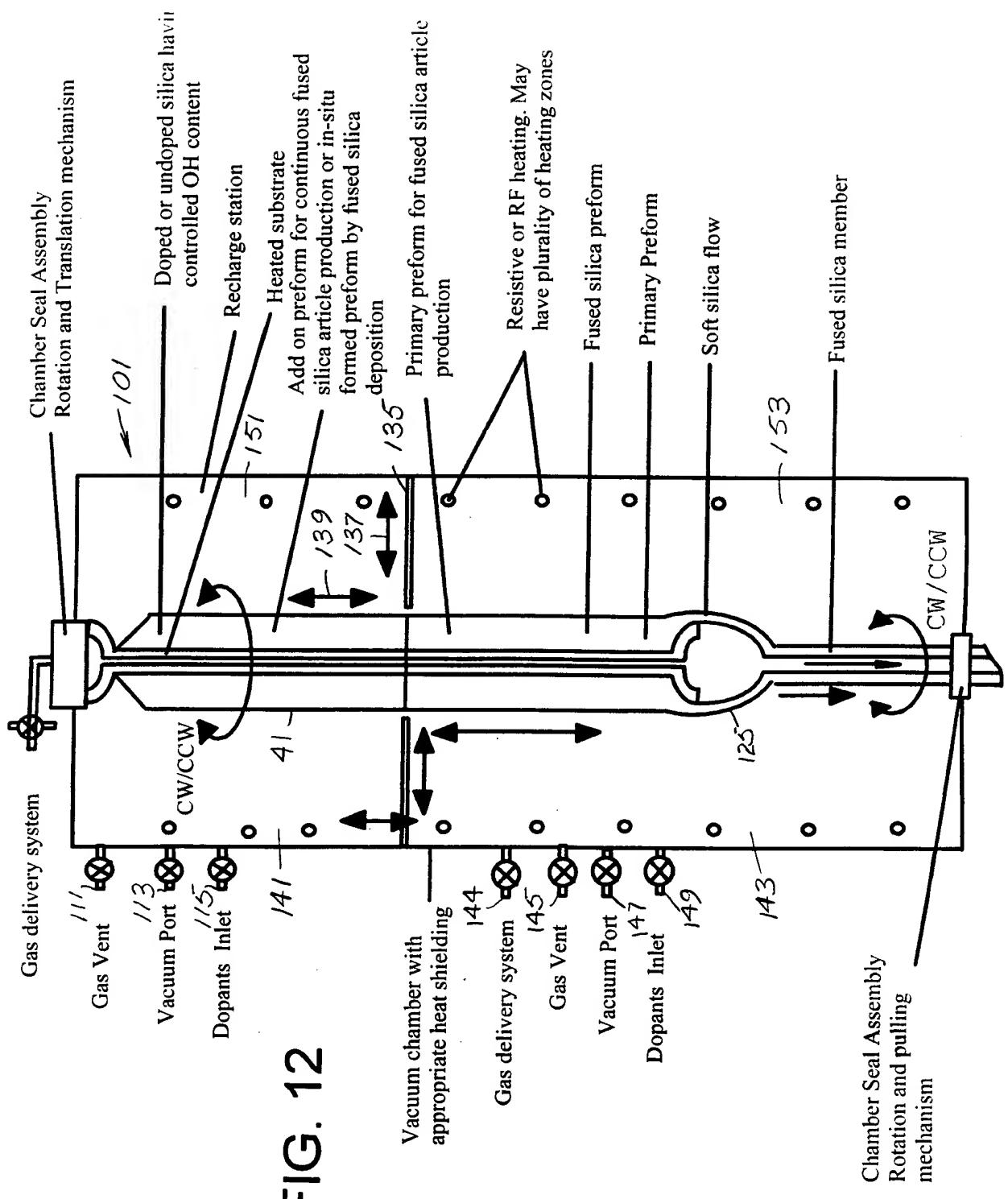
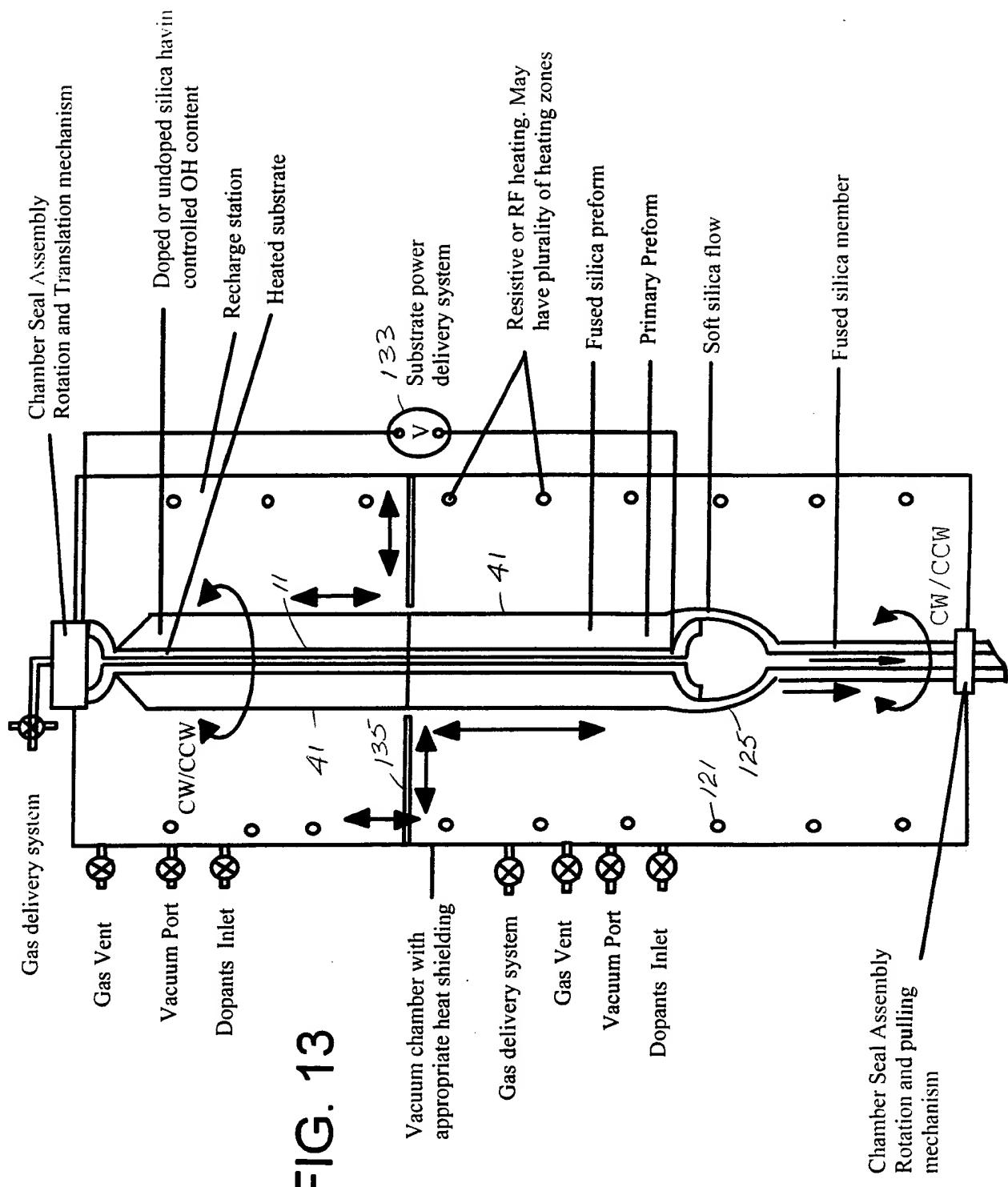
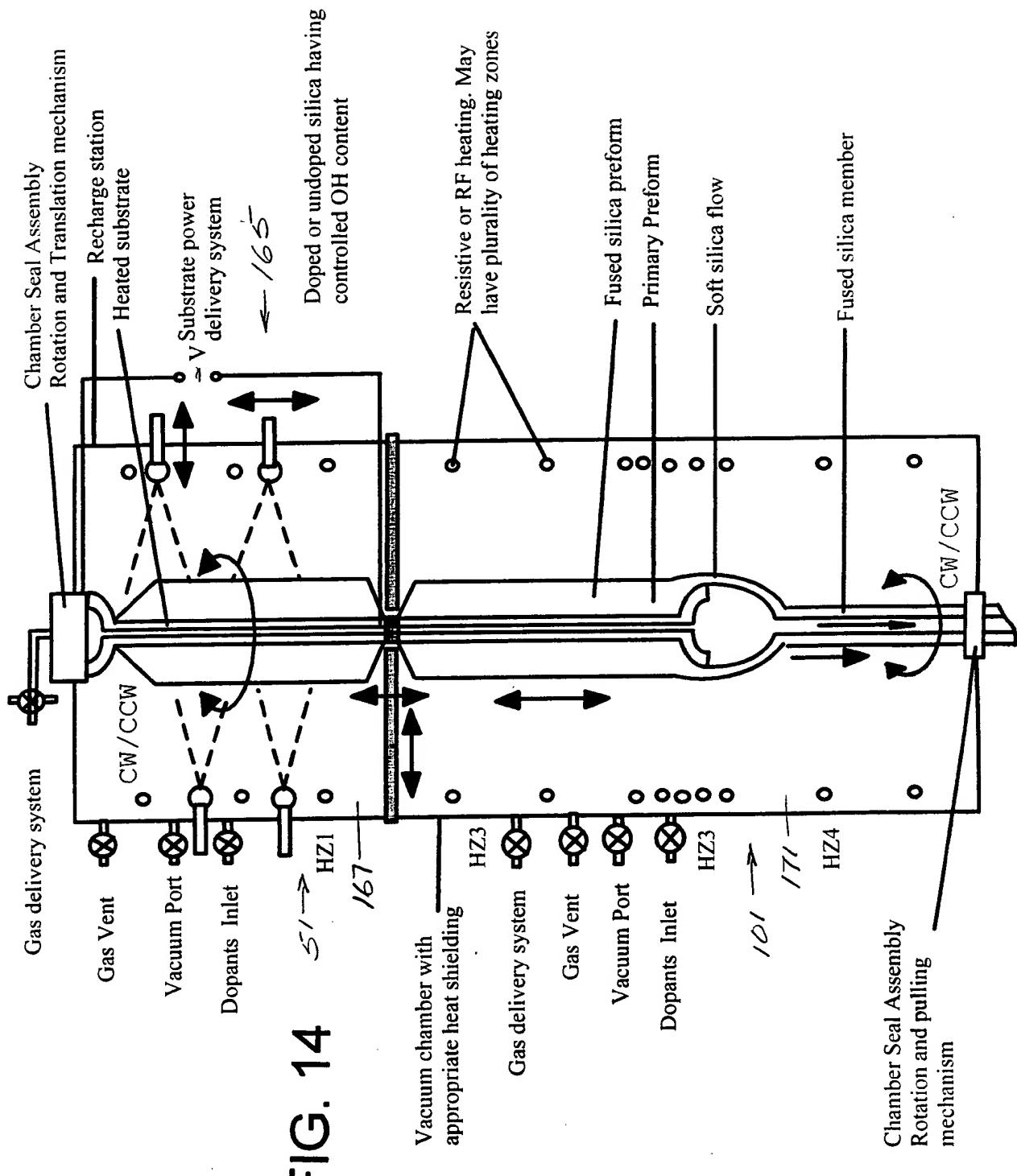


FIG. 12

7 3 2 8 5 0 = 2 7 6 0 8 5 0



7 0 0 0 0 0 0 0 0 0 0 0



65 65 65 65 65 65 65

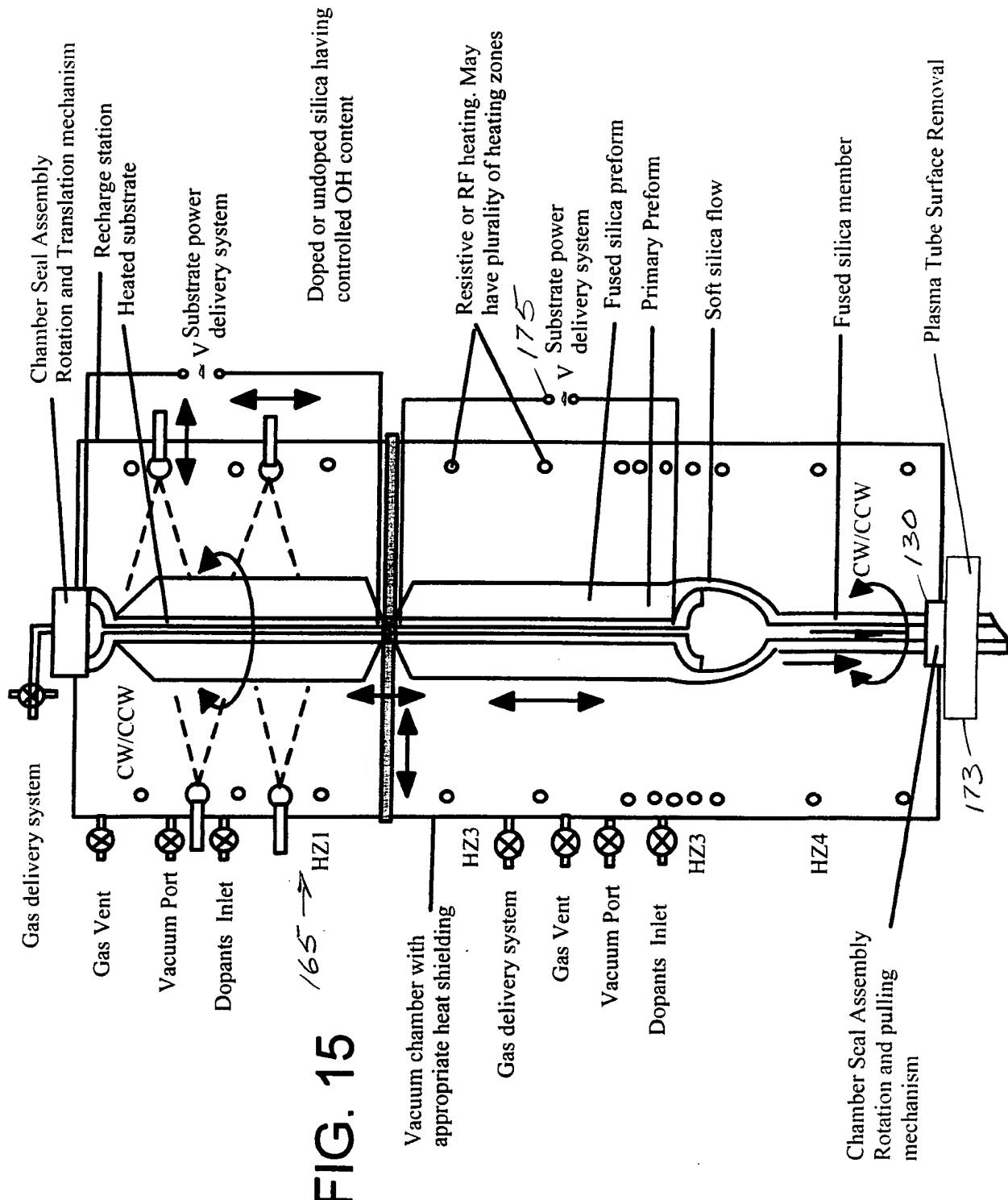
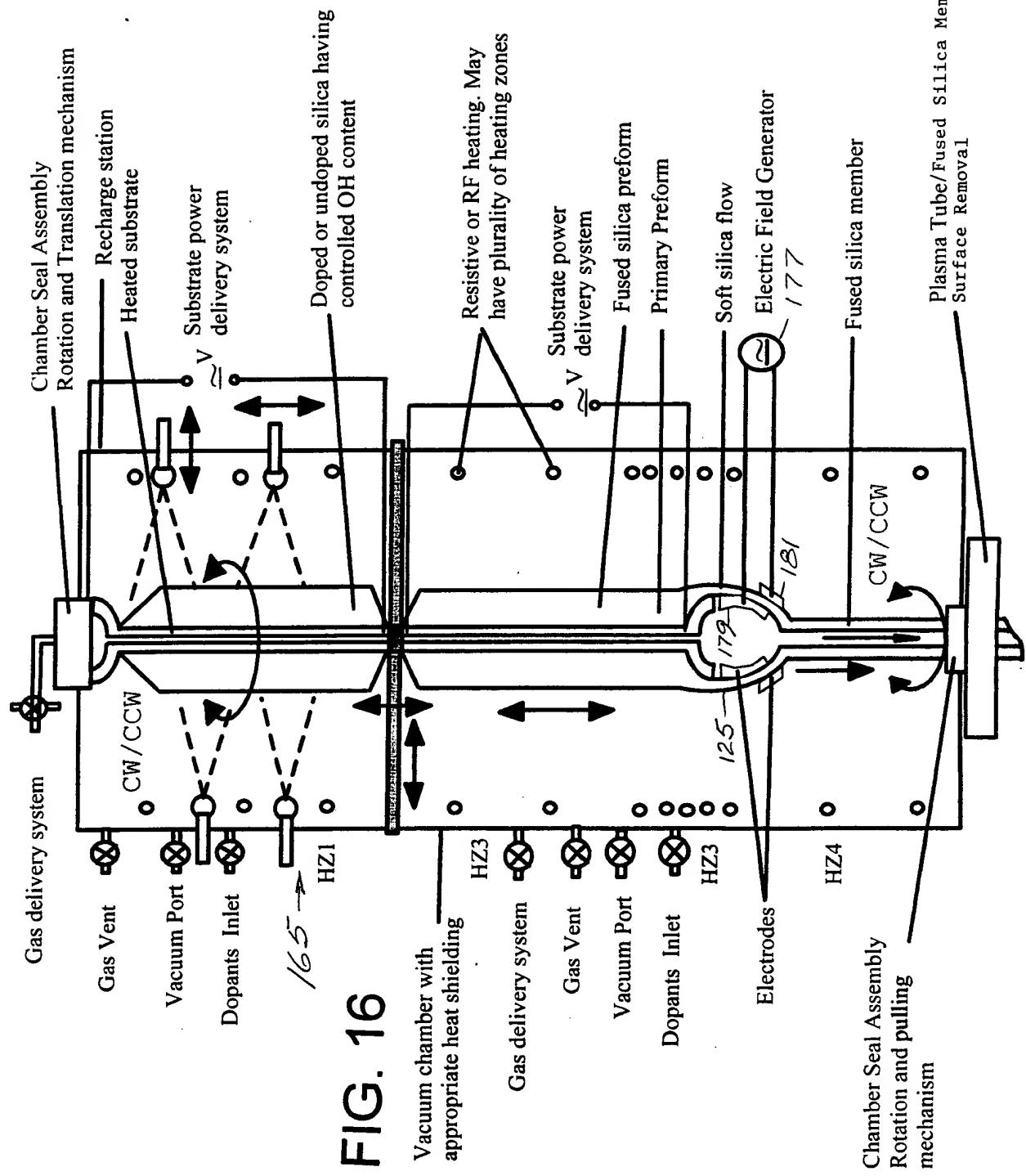
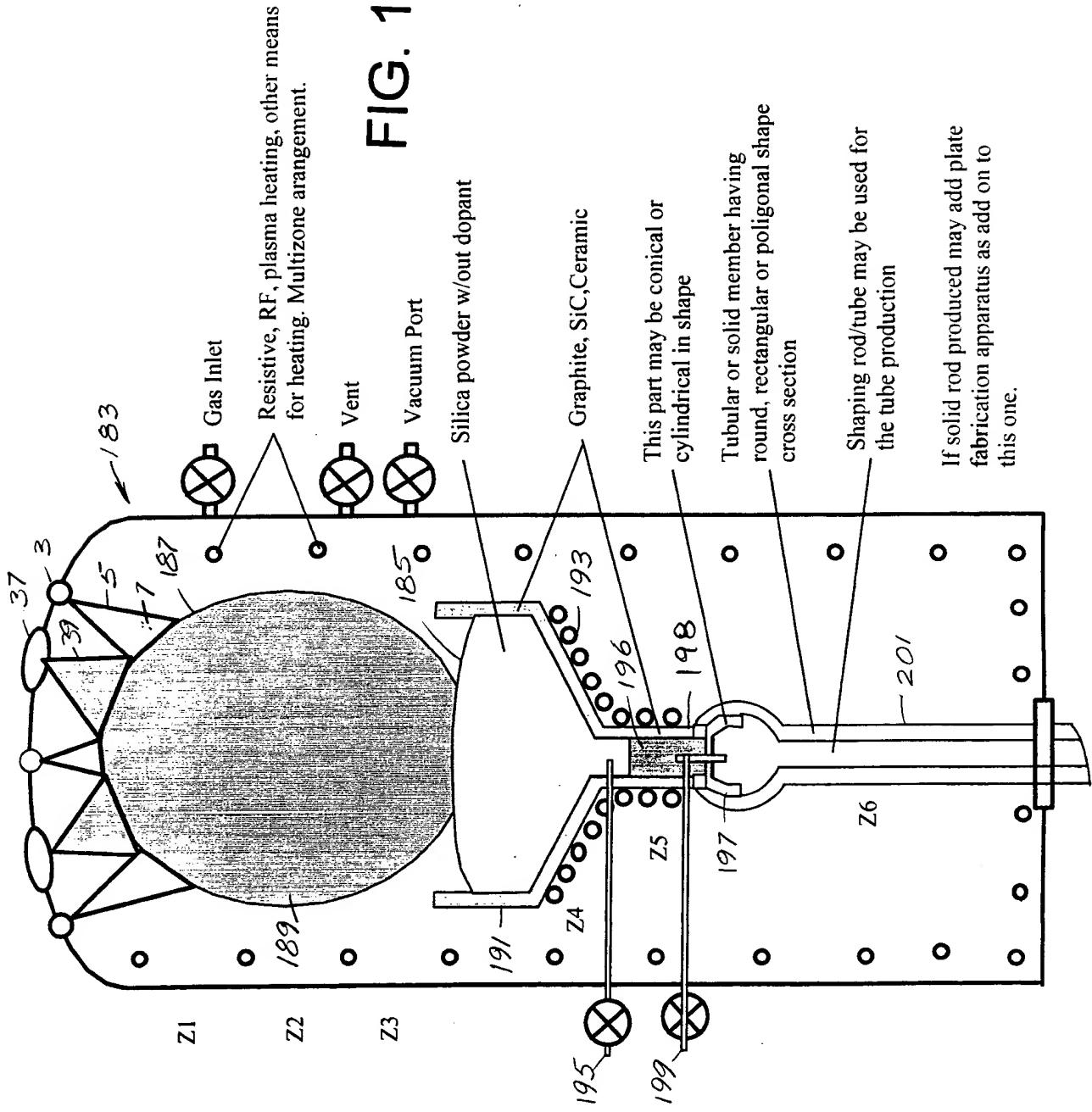
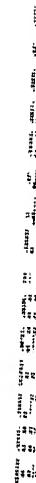


FIG. 15







If solif rod produced may add plate fabrication apparatus as add on to this one.

Resistive, RF, plasma heating, other means for heating. Multizone arrangement.

FIG. 18

Silica powder w/out dopant

Graphite, SiC,Ceramic

This part may be conical or cylindrical in shape

Softened Fused Silica

Electric Field Generator

1

Tubular or solid member having round, rectangular or polygonal shape cross section

Shaping rod/tube may be used for the tube production

Plasma Tube/Fused Silica Member Surface Removal

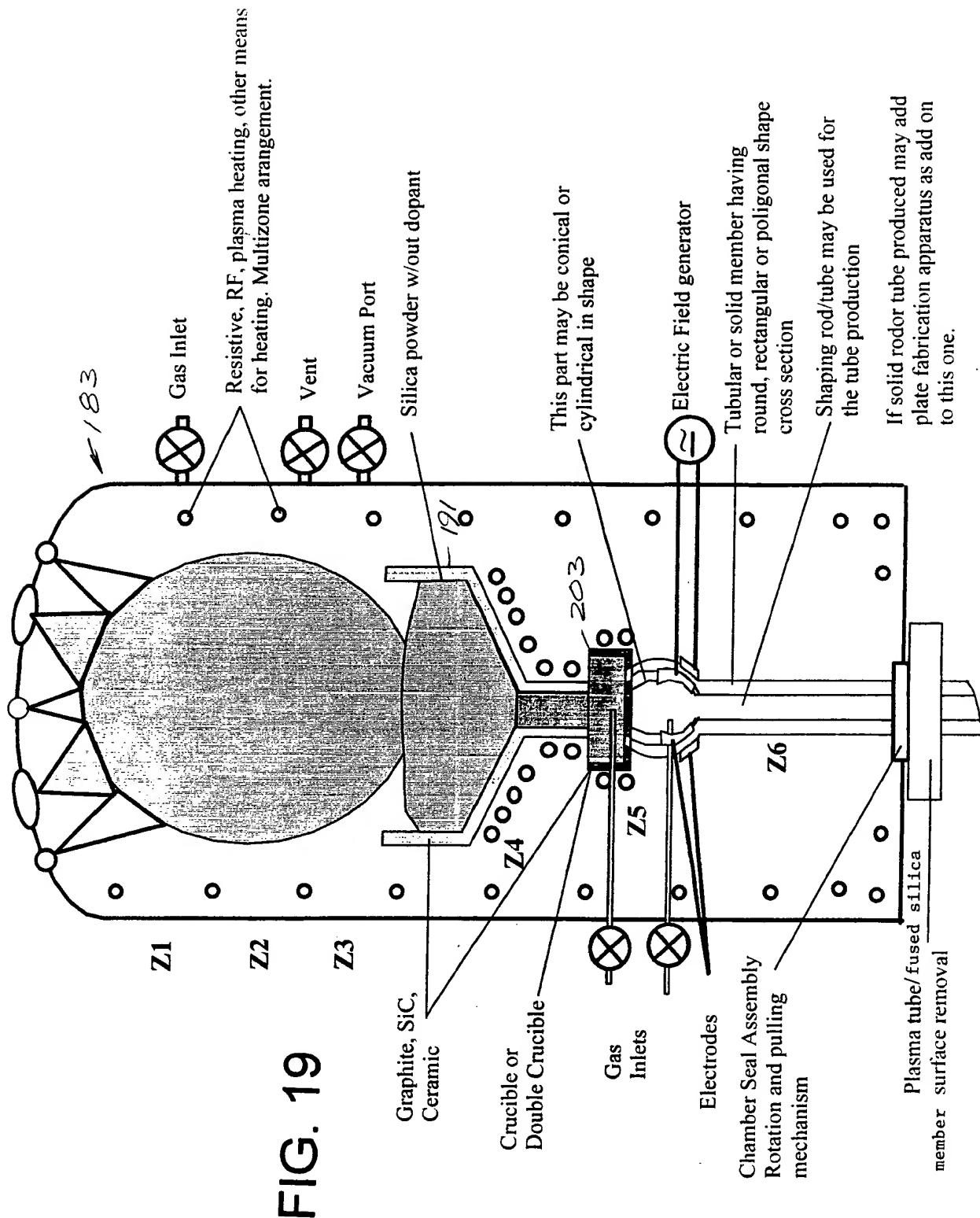
1

201- 130

173

Electrodes

FIG. 19



7 2 5 7 3 0 = 2 4 5 0 3 3 6 0

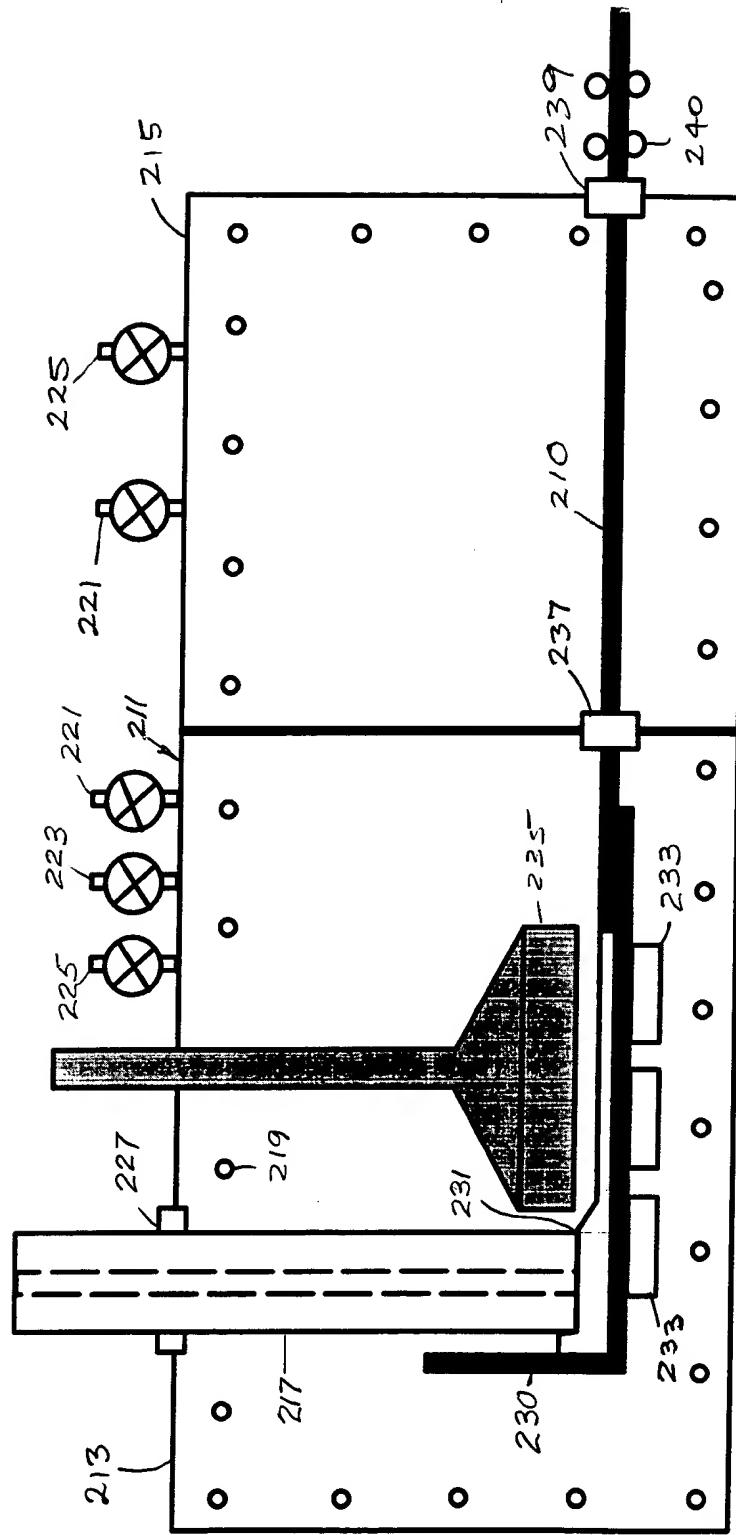


FIG. 20

7 2 2 2 2 2 2 = 2 2 2 2 2 2 2

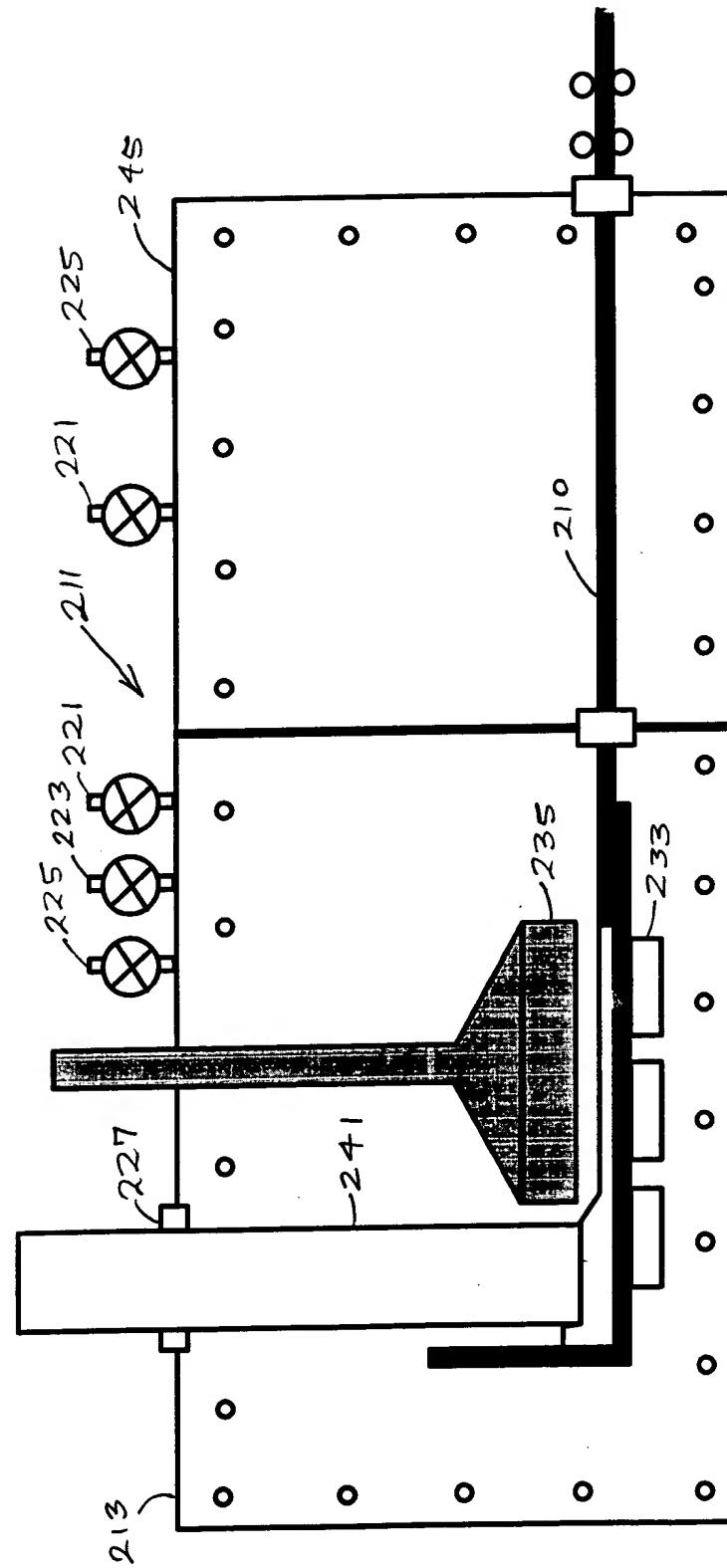


FIG. 21

